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PLAGUE-PREVENTION WORK.

CALIFORNIA.

The following report of plague-prevention work in California for the week ended April 3, 1915, was received from Passed Asst. Surg. Hurley of the United States Public Health Service, in temporary charge of the work:

San Francisco, Cal.

RAT PROOFING.		Old buildings—Continued.	
New buildings:		Cubic feet new foundation walls installed.....	14,002
Inspection of work under construction.....	278	Concrete floors installed (27,577 square feet).....	44
Basement floors concreted (16,572 square feet).....	24	Basements concreted (37,226 square feet).....	56
Floors concreted (16,147 square feet)....	71	Yards and passageways, etc., concreted (36,869 square feet).....	81
Yards, passageways, etc. (17,022 square feet).....	55	Total area concrete laid (square feet).....	101,672
Total area of concrete laid (square feet).....	49,741	Floors rat proofed with wire cloth (7,045 square feet).....	10
Class A, B, and C (fireproof) buildings:		Buildings razed.....	15
Inspections made.....	267	New garbage cans stamped approved..	264
Roof and basement ventilators, etc., screened.....	2,860	Nuisances abated.....	366
Wire screening used (square feet).....	19,770		
Openings around pipes, etc., closed with cement.....	11,030	OPERATIONS ON THE WATER FRONT.	
Sidewalk lens lights replaced.....	3,835	Vessels inspected for rat guards.....	22
Old buildings:		Reinspections made on vessels.....	26
Inspections made.....	600	New rat guards procured.....	6
Wooden floors removed.....	64	Defective rat guards repaired.....	7
Yards and passageways, planking removed.....	24	Vessels on which cargo was inspected.....	1

Amount of cargo inspected and description of same.	Condition.	Rat evidence.
Steamer Congress, from Seattle:		
120 cases milk, cheese, and household goods.....	O. K.....	None.
400 sacks flour, wheat, and peanuts.....	O. K.....	None.

RATS COLLECTED AND EXAMINED FOR PLAGUE.	
Rats trapped on wharves and water front....	19
Rats trapped on vessels.....	12
Traps set on wharves and water front.....	191
Traps set on vessels.....	45
Vessels trapped on.....	10
Poisons placed on water front (pieces).....	3,600
Poisons placed within Panama-Pacific International Exposition grounds (pieces).....	3,600
Bait used on water front and vessels—bacon (pounds).....	6
Amount of bread used in poisoning water front (loaves).....	12
Pounds of poison used on water front.....	6
Collected.....	280
Examined.....	183
Found infected.....	
RATS IDENTIFIED.	
Mus norvegicus.....	115
Mus musculus.....	59
Mus alexandrinus.....	64
Mus rattus.....	42

Squirrels collected and examined for plague.

Contra Costa County.....	83
San Benito County.....	104
Santa Cruz County.....	19
Santa Clara County.....	49
Stanislaus County.....	33
Merced County.....	33
Total.....	321
Found infected.....	0

Other animals collected and examined for plague.

San Benito County.....	1 rabbit
Found infected.....	0

Ranches inspected and hunted over.

Contra Costa County.....	18
San Benito County.....	14
Santa Cruz County.....	5
Stanislaus County.....	6
Merced County.....	10
Santa Clara County.....	9
Total.....	62

Record of plague infection.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	(1)	398 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	(1)	126 rats.
Berkeley.....	Aug. 20, 1907	(1)	(1)	None.
Los Angeles.....	Aug. 11, 1908	(1)	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).	Sept. 24, 1909	Oct. 17, 1909 ²	Aug. 7, 1914	286 squirrels, 1 wood rat.
Contra Costa.....	May 17, 1914	(1)	Mar. 4, 1915	1,567 squirrels.
Fresno.....	(1)	(1)	Oct. 27, 1911	1 squirrel.
Merced.....	(1)	(1)	July 12, 1911	5 squirrels.
Monterey.....	(1)	(1)	Apr. 10, 1914	6 squirrels.
San Benito.....	June 4, 1913	(1)	Sept. 26, 1914	36 squirrels.
San Joaquin.....	Sept. 18, 1911	(1)	Aug. 26, 1911	18 squirrels.
San Luis Obispo.....	(1)	(1)	Jan. 29, 1910	1 squirrel.
Santa Clara.....	Aug. 31, 1910	(1)	July 23, 1913	25 squirrels.
Santa Cruz.....	(1)	(1)	May 17, 1910	3 squirrels.
Stanislaus.....	(1)	(1)	June 2, 1911	13 squirrels.

¹ None.² Wood rat.

Operations are being carried on under Federal supervision on the Tormey Estate, Contra Costa County, labor and material being furnished by the owners, as follows:

Number of acres covered.....	149
Number of holes treated.....	6,774

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, Merced, San Joaquin, Santa Cruz, Stanislaus, San Benito, Santa Clara, and San Mateo.

LOUISIANA—NEW ORLEANS—PLAGUE-ERADICATION WORK.

The following reports of plague-eradication work at New Orleans were received from Surg. Creel, of the United States Public Health Service, in temporary charge of the work:

WEEK ENDED APR. 3, 1915.

OUTGOING QUARANTINE.		
Vessels fumigated with sulphur.....	32	Pounds of potassium cyanide used in hydrocyanic-gas fumigation..... 160½
Vessels fumigated with carbon monoxide.....	20	Pounds of sodium carbonate used in hydrocyanic-gas fumigation..... 181
Vessels fumigated with hydrocyanic gas..	2	Pounds of sulphuric acid used in hydrocyanic-gas fumigation..... 162
Pounds of sulphur used.....	7,972	Clean bills of health issued..... 37
Coke consumed in carbon monoxide fumigation (pounds).....	29,300	Foul bills of health issued..... 7

OVERLAND FREIGHT INSPECTION.

Cars inspected, found in good order, permitted to load.....	1,916
Cars ordered repaired before loading.....	1,348
Total cars inspected.....	3,264

DESTINATION AND NUMBER OF RAILROAD CARS INSPECTED FOR WEEK ENDED APRIL 3, 1915.

Alabama.....	112
Arizona.....	1
Arkansas.....	10
California.....	18
Carolina, North.....	2
Carolina, South.....	4
Colorado.....	40
Florida.....	61
Georgia.....	36
Illinois.....	260
Indiana.....	32
Iowa.....	19
Kansas.....	2
Kentucky.....	47
Louisiana.....	1,089
Maryland.....	1
Michigan.....	32
Mississippi.....	387
Missouri.....	74
New Jersey.....	1
New Mexico.....	3
New York.....	21
Ohio.....	123
Oklahoma.....	22
Oregon.....	5
Pennsylvania.....	15
Tennessee.....	87
Texas.....	244
Virginia.....	3
West Virginia.....	1
Washington.....	2
Wisconsin.....	6
Canada.....	3

FIELD OPERATIONS.

Rats trapped.....	5,144
Number of premises inspected.....	9,854
Notices served.....	955

BUILDINGS RAT-PROOFED.

By elevation.....	155
By marginal concrete wall.....	183
By concrete floor and wall.....	286
By minor repairs.....	409
Square yards of concrete laid.....	10,590
Total buildings rat-proofed.....	1,033
Total buildings rat-proofed to date.....	28,541
Number of abatements.....	2,219
Number of abatements to date.....	15,221

LABORATORY OPERATIONS.

Rodents examined.....	2,438
Mus norvegicus.....	1,855
Mus rattus.....	121
Mus alexandrinus.....	113
Mus musculus.....	2,826
Wood rats.....	68
Musk rats.....	142
Total rodents received at laboratory.....	5,125
Number of suspicious rats.....	2
Plague rats confirmed.....	0
Last case of human plague, Oct. 4, 1914.....	
Last case of rodent plague, Mar. 9, 1915.....	
Total number of rodents captured to Apr. 3.....	312,347
Total number of rodents examined to Apr. 3.....	232,447
Total cases of rodent plague to Apr. 3, by species:	
Mus musculus.....	4
Mus rattus.....	16
Mus norvegicus.....	208
Mus alexandrinus.....	8
Total rodent cases to Apr. 3, 1915.....	236

WEEK ENDED APR. 10, 1915.

OUTGOING QUARANTINE.

Vessels fumigated with sulphur.....	26
Vessels fumigated with carbon monoxide.....	15
Vessels fumigated with hydrocyanic gas.....	1
Pounds of sulphur used.....	6,187
Coke consumed in carbon monoxide fumigation (pounds).....	25,702
Pounds of potassium cyanide used in hydrocyanic gas fumigation.....	102
Pounds of sodium carbonate used in hydrocyanic gas fumigation.....	120
Pounds of sulphuric acid used in hydrocyanic gas fumigation.....	104
Clean bills of health issued.....	30
Foul bills of health issued.....	9

OVERLAND FREIGHT INSPECTION.

Cars inspected, found in good order, permitted to load.....	2,103
Cars ordered repaired before loading.....	1,391
Total cars inspected.....	3,494
Rodents killed in cars.....	3

DESTINATION AND NUMBER OF RAILROAD CARS INSPECTED FOR WEEK ENDED APR. 10, 1915.

Alabama.....	113
Arizona.....	2
Arkansas.....	20
California.....	25
Carolina, North.....	3
Carolina, South.....	6
Colorado.....	5
Dakota, South.....	4
Florida.....	19
Georgia.....	55
Idaho.....	1
Illinois.....	334
Indiana.....	21
Iowa.....	31
Kansas.....	34
Kentucky.....	37
Louisiana.....	939
Massachusetts.....	3
Michigan.....	76
Minnesota.....	14

Mississippi.....	403	Total buildings rat proofed to date.....	29,669
Missouri.....	73	Number of abatements.....	2,742
Montana.....	1	Number of abatements to date.....	17,993
Nebraska.....	1	LABORATORY OPERATIONS.	
New Hampshire.....	1	Rodents examined.....	2,358
New Jersey.....	1	Mus norvegicus.....	1,878
New York.....	43	Mus rattus.....	104
Ohio.....	96	Mus alexandrinus.....	109
Oklahoma.....	6	Mus musculus.....	3,246
Pennsylvania.....	4	Wood rats.....	63
Rhode Island.....	1	Putrid.....	75
Tennessee.....	81	Musk rats.....	121
Texas.....	162	Total rodents received at laboratory.....	5,535
Virginia.....	3	Number of suspicious rats.....	7
Wisconsin.....	39	Plague rats confirmed.....	0
Canada.....	4	Last case of human plague, Oct. 4, 1914.	
FIELD OPERATIONS.		Last case of rodent plague, Mar. 9, 1915.	
Number of rats trapped.....	5,506	Total number of rodents captured to Apr. 10.	317,853
Number of premises inspected.....	11,065	Total number of rodents examined to Apr. 10	234,895
Notices served.....	1,112	Total cases of rodent plague to Apr. 10, by species:	
BUILDINGS RAT PROOFED.		Mus musculus.....	4
By elevation.....	136	Mus rattus.....	16
By marginal concrete wall.....	214	Mus norvegicus.....	208
By concrete floor and wall.....	291	Mus alexandrinus.....	8
By minor repairs.....	487	Total rodent cases to Apr. 10, 1915...	236
Square yards of concrete laid.....	15,367		
Total buildings rat proofed.....	1,128		

WASHINGTON—SEATTLE—PLAGUE-ERADICATION WORK.

The following report of plague-eradication work at Seattle for the week ended April 3, 1915, was received from Surg. Lloyd, of the United States Public Health Service:

RAT PROOFING.		Rodents examined for plague infection.....	365
New buildings inspected.....	25	Rodents proven plague infected.....	0
Basements concreted, new buildings, 5,240 square feet.....	6	Poison distributed, pounds.....	28
Floors concreted, new buildings, 17,675 square feet.....	14	Bodies examined for plague infection.....	7
Yards, etc., concreted, new buildings, 1,478 square feet.....	2	Bodies found plague infected.....	0
Sidewalks concreted (square feet).....	16,798	CLASSIFICATION OF RODENTS.	
Total concrete laid, new structures (square feet).....	41,191	Mus rattus.....	19
New buildings elevated.....	5	Mus alexandrinus.....	91
New premises rat-proofed, concrete.....	20	Mus norvegicus.....	281
Buildings razed.....	2	Mus musculus.....	100
LABORATORY AND RODENT OPERATIONS.		Total.....	491
Dead rodents received.....	13	WATER FRONT.	
Rodents trapped and killed.....	478	Vessels inspected and histories recorded....	9
Total.....	491	Vessels fumigated.....	2
		Sulphur used, pounds.....	350
		New rat guards installed.....	14
		Defective rat guards repaired.....	6
		Fumigation certificates issued.....	2
		Canal Zone certificates issued.....	1
		Port sanitary statements issued.....	34

The usual day and night patrol was maintained to enforce rat guarding and fending.

MISCELLANEOUS WORK.		Mus musculus trapped.....	2
Lectures delivered on sanitary subjects.....	1	Total.....	56
Rat-proofing notices sent to contractors.....	27	Rodents examined for plague infection.....	50
Fishing vessels inspected and medicine chests installed.....	4	Rodents found plague infected.....	0
Water analysis for the Indian Service.....	1	RAT-PROOFING OPERATIONS IN EVERETT.	
RODENTS EXAMINED IN EVERETT.		New buildings inspected.....	3
Mus norvegicus trapped.....	49	New buildings rat proofed by concrete foundations.....	2
Mus norvegicus found dead.....	5		

HAWAII—PLAGUE-PREVENTION WORK.

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

Honolulu.

WEEK ENDED MAR. 27, 1915.

Total rats and mongoose taken.....	473	Classification of rats killed by sulphur dioxide:	
Rats trapped.....	463	<i>Mus alexandrinus</i>	2
Mongoose trapped.....	9	Average number of traps set daily.....	1,085
Rats killed by sulphur dioxide.....	2	Cost per rat destroyed.....	17½ cents.
Examined microscopically.....	386	Last case rat plague, Aiea, 9 miles from Honolulu,	
Showing plague infection.....	0	Apr. 12, 1910.	
Classification of rats trapped:		Last case human plague, Honolulu, July 12, 1910.	
<i>Mus alexandrinus</i>	230	Last case rat plague, Kalopa stable, Paauhau,	
<i>Mus musculus</i>	143	Hawaii, Aug. 29, 1914.	
<i>Mus norvegicus</i>	51	Last case human plague, Paauhau Landing,	
<i>Mus rattus</i>	38	Hawaii, Aug. 17, 1914.	

Hilo.

WEEK ENDED MAR. 20, 1915.

Rats and mongoose taken.....	2,682	Classification of rats trapped and found	
Rats trapped.....	2,631	dead—Continued.	
Rats found dead.....	1	<i>Mus alexandrinus</i>	423
Mongoose taken.....	50	<i>Mus rattus</i>	867
Rats and mongoose examined macroscopic-		<i>Mus musculus</i>	670
ally.....	2,682	Last case of rat plague, Paauhau Sugar Co., Aug.	
Rats and mongoose found plague infected...	0	29, 1914.	
Classification of rats trapped and found dead:		Last case of human plague, Paauhau Sugar Co.,	
<i>Mus norvegicus</i>	672	Aug. 16, 1914.	